

Effective on 12/08/2004.  
Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

## FEE TRANSMITTAL For FY 2009

Applicant claims small entity status. See 37 CFR 1.27

**TOTAL AMOUNT OF PAYMENT** (\$ 405)

| Complete if Known    |                  |
|----------------------|------------------|
| Application Number   | 10/588,135       |
| Filing Date          | 7/31/2006        |
| First Named Inventor | Young-Nam Kim    |
| Examiner Name        | Nathan Schlientz |
| Art Unit             | 1616             |
| Attorney Docket      | 5038 - 061693    |

### METHOD OF PAYMENT (check all that apply)

Check  Credit Card  Money Order  None  Other (please identify): \_\_\_\_\_

Deposit Account Deposit Account Number: 23-0650 Deposit Account Name: \_\_\_\_\_

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

Charge fee(s) indicated below  Charge fee(s) indicated below, except for the filing fee  
 Charge any additional fee(s) or underpayments of fee(s)  Credit any overpayments  
under 37 CFR 1.16 and 1.17

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

### FEE CALCULATION (All the fees below are due upon filing or may be subject to a surcharge.)

#### 1. BASIC FILING, SEARCH, AND EXAMINATION FEES

| Application Type | FILING FEES  |          | SEARCH FEES  |          | EXAMINATION FEES |          | Fees Paid (\$) |
|------------------|--------------|----------|--------------|----------|------------------|----------|----------------|
|                  | Small Entity | Fee (\$) | Small Entity | Fee (\$) | Small Entity     | Fee (\$) |                |
| Utility          | 330          | 82       | 540          | 270      | 220              | 110      |                |
| Design           | 220          | 110      | 100          | 50       | 140              | 70       |                |
| Plant            | 220          | 110      | 330          | 165      | 170              | 85       |                |
| Reissue          | 330          | 165      | 540          | 270      | 650              | 325      |                |
| Provisional      | 220          | 110      | 0            | 0        | 0                | 0        |                |

#### 2. EXCESS CLAIM FEES

##### Fee Description

Each claim over 20 (including Reissues)

##### Small Entity

Each independent claim over 3 (including Reissues)

Fee (\$)

52 26

Multiple dependent claims

220 110

390 195

| Total Claims | - 20 or HP | Extra Claims | Fee (\$) | Fee Paid (\$) | Multiple Dependent Claims |
|--------------|------------|--------------|----------|---------------|---------------------------|
| 9            | - 29       | = 0          | x 0      | = 0           | Fee (\$)                  |

HP = highest number of total claims paid for, if greater than 20.

| Indep. Claims | - 3 or HP | Extra Claims | Fee (\$) | Fee Paid (\$) |
|---------------|-----------|--------------|----------|---------------|
| 1             | - 3       | = 0          | x 0      | = 0           |

HP = highest number of independent claims paid for, if greater than 3.

#### 3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$270 (\$135 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

| Total Sheets | Extra Sheets | Number of each additional 50 or fraction thereof | Fee (\$) | Fee Paid (\$) |
|--------------|--------------|--------------------------------------------------|----------|---------------|
| - 100 =      | / 50 =       | (round up to a whole number)                     | x        | =             |

#### 4. OTHER FEE(S)

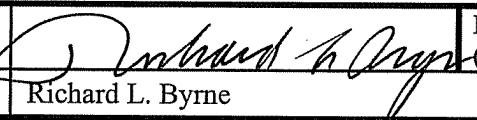
Non-English Specification, \$130 fee (no small entity discount)

Fees Paid (\$)

Other (e.g., late filing surcharge): RCE

\$405

#### SUBMITTED BY

|                   |                                                                                     |                                      |        |           |                    |
|-------------------|-------------------------------------------------------------------------------------|--------------------------------------|--------|-----------|--------------------|
| Signature         |  | Registration No.<br>(Attorney/Agent) | 28,498 | Telephone | 412-471-8815       |
| Name (Print/Type) | Richard L. Byrne                                                                    |                                      |        | Date      | September 10, 2009 |